



FLAME DETECTION



GASEOUS
SUPPRESSION



WATER
SUPPRESSION



FOAM
SUPPRESSION



EXPLOSION
PROTECTION



FIRE
DETECTION



MILITARY
& DEFENCE



SPECIAL
APPLICATIONS



SUPPORT
SERVICES

FLAME DETECTION

“EVERY SOLUTION FOR YOUR SPECIAL HAZARD PROBLEMS”

“Flame Detectors operate in the harshest environmental conditions and offer a solution for virtually any application where there is a fire risk to personnel and high value plant and capital equipment.”

A flame detector is a sensor for detecting electromagnetic radiation (E-MR) associated with the presence of flame in the UV to infrared spectrum.

In addition the flame detector must process this received E-MR and analyse the signal for particular characteristics to see if it matches that of flame and then cause an alarm output.

It must also be able to discriminate against other sources of E-MR that may be present and are not associated with flame. e.g. Solar radiation, welding, lighting, heaters etc.

FEATURES:

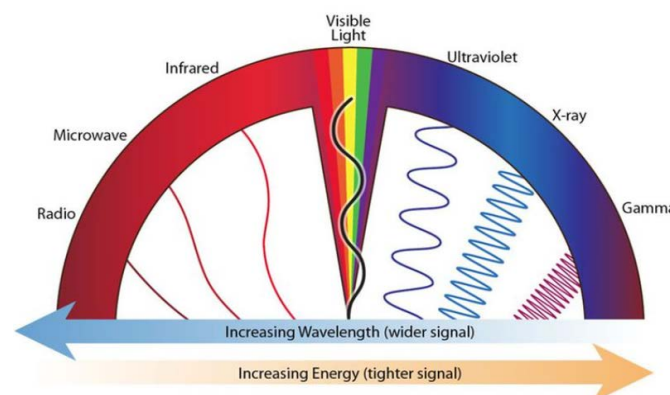
- Heated optics for reducing condensation and icing
- Multiple wiring options
- Ultra-fast detection mode available (within 20 – 40 milliseconds)
- Relay (Fault, Alarm), HART, 0-20mA and Modbus protocols
- Various sensitivity ranges available
- Built in testing (BIT) for optics & electronics checking (manual or automatic)
- Time delays programmable
- Explosion Proof (ATEX, FM, IECEx)
- 5 year manufacturers warranty

We offer flame detection solutions with fast response times, the best area coverage, the highest immunity to false alarms and all the performance and safety approvals you need.

Before you decide you need to know the pros and cons of each type of detector as no single detector is suitable for every situation.

Apart from hydrocarbon fires, our wide detector range can help with other special fire types eg. hydrogen, ammonia and silane.

Industrial and commercial applications for flame detection include offshore oil and gas platforms, FPSOs, oil and gas pipelines, petrochemical plant, refineries, aircraft hangars, flammable fuel storage tanks, hydrogen filling stations, munitions plants and many more.



FIKE FLAME DETECTORS

Ultra-fast detection of hydrocarbon and hydrogen fires are possible with Fike optical flame detectors. Their resistance to weather conditions and false alarms, and ability to detect smoke and oil mist with Fike Video Analytics, make UV/IR optical detection ideal for high-risk environments.

Various models of high-speed flame detectors include:

- FLS-IR3: Detects hydrocarbon fuel and gas fires at long distances. With its triple spectrum design, it provides the highest immunity to false alarms.
- FLS-IR3-H2: Detects invisible hydrogen (H2) gas fires at long distances. Its triple spectrum protects against false alarms.
- FLS-UV-IR: A UV and IR detector that detects hydrocarbon-based fuel and gas fires, hydroxyl and hydrogen fires, as well as metal and inorganic fires. The UV sensor has a special logic circuit that prevents false alarms from solar radiation.
- IR3 HD-CCTV: The detector provides high-definition (HD) video output with clear imaging of fire event at up to 100 ft (30m).



SHARPEYE FLAME DETECTORS

Spectrex SharpEye 40/40 Next Generation Series Flame Detectors

The SharpEye™ next-generation 40/40 series is based on proven Spectrex technologies, including IR3 and UV/IR. The SharpEye 40/40 series features QuadSense™ technology, the next level in flame detection, providing the fastest response to fire, increased area coverage and longest distance detection or revolutionary UV/IR technology, coupled with high sensitivity and superior immunity to false alarms, functioning in harsh conditions with unparalleled reliability and durability.

With an improved design, the detectors are easy to install and maintain and come with universal wiring options and multiple output options for maximum flexibility and compatibility.

20/20 Series Mini Flame Detectors

The 20/20 range also includes Mini IR3 and Mini UV/IR detectors which offer a lower cost, lower power, compact design in a general purpose (non-Ex approved) format.



PRODUCTS:

Gaseous Suppression



Inert Gas (IG-01, IG-55, IG-100, IG-541)
Novec 1230™ Fluid (FK-5-1-12)
FM-200® / NAF S 227 (HFC-227ea.)
Ecaro 125® / NAF S 125 (HFC-125)
Carbon Dioxide (CO₂)
Hybrid Systems (N₂ / Water)
Pressure Relief Vents
Enclosure Integrity Testing Equipment
Pipe Fittings

Water Suppression



Water Mist - High Pressure
Water Mist - Intermediate Pressure
Water Mist - Low Pressure
Hybrid Systems (Water / N₂)
Monitors & Delivery Systems
High Speed Deluge

Foam Suppression



Foam Concentrates
Foam Proportioning
Foam Delivery Systems
Foam concentrate testing

Explosion Protection



Explosion Suppression
Explosion Isolation
Explosion Vents & Pressure Relief
Spark Suppression
Explosibility testing

Fire Detection



Infrared Heat Detection - Digital
Infrared Heat Detection - Fibre Optic
Infrared Heat Detection - Microchip
Flame Detection
Video Imaging Detection
Spark Detection
Control Indicating Equipment
Thermal Imaging Detection
Aspirating Smoke Detection

Military & Defence



Military Vehicles
Naval Vessels

Special Applications



Micro Environment
Oxygen Reduction
Kitchen Protection Systems
Dry Chemical
Vehicle Systems
Compressed Air Foam
Marine Onshore
Apour Migration

Support Services



Design / Engineering
Technical Support
Services testing

Australia

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Unit 7, 93 Rivergate Place
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Australia

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South East Asia

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‘Every solution for your special hazard problems’